

AMENDMENTS TO THE CLAIMS

This listing of claims replaces all prior versions and listings of claims in the application.

Listing of Claims:

1. (Previously Presented) A system for providing a resource associated with an incoming call over a broadband network, comprising:

a first node including switching intelligence and narrowband switching fabric, said first node being adapted to provide the resource;

a plurality of second nodes each including broadband switching fabric, a termination one of said second nodes having first and second connections thereto associated with the call; and

an interworking entity operatively connectable to said first node and said plurality of second nodes, said interworking entity being adapted to configure said first and second connections based on instructions provided by the switching intelligence of said first node;

wherein said first connection is a call connection over the broadband network associated with the call and said second connection is a temporary connection over the broadband network, the resource being provided over said temporary connection and wherein said interworking entity is adapted to break said call connection after said temporary connection is established to provide the resource.

2. (Original) The system of claim 1, wherein said first node is comprised of a legacy switch including said narrowband switching fabric.

3. (Original) The system of claim 2, wherein an additional one of said plurality of second nodes is interconnected between said termination second node and said first node to convert the resource from a circuit-switched format used by the narrowband switching fabric to a packet-switched format used by the broadband switching fabric.

4. (Original) The system of claim 1, wherein said plurality of second nodes comprise at least part of the broadband network.

5. (Original) The system of claim 1, wherein the resource comprises a frequency shift keying message.

6. (Original) The system of claim 5, further comprising:
a frequency shift keying code sender device within said first node for generating the frequency shift keying message.

7. (Original) The system of claim 6, further comprising:
a group switch within said first node for connecting between said frequency shift keying code sender device and said termination second node.

8. (Original) The system of claim 7, further comprising:
exchange termination equipment for transmitting the frequency shift keying message to said termination second node.

9-10. (Canceled)

11. (Previously Presented) The system of claim 1, wherein said termination second node is adapted to switch from said call connection to said temporary connection to break said call connection.

12. (Previously Presented) The system of claim 1, wherein said termination second node is adapted to maintain said call connection during said temporary connection.

13. (Original) The system of claim 12, further comprising:

an access node connected to said termination second node, said access node being further connected to a called subscriber associated with the call said call connection and said temporary connection being connected to said access node said access node being adapted to switch from said call connection to said temporary connection to break said call connection.

14. (Previously Presented) The system of claim 1, wherein said interworking entity is further adapted to re-establish said call connection after said temporary connection is broken.

15. (Original) The system of claim 1, wherein said first connection is a first call connection over the broadband network associated with an existing call and said second connection is a second call connection over the broadband network associated with the incoming call and the existing call, the resource being sent over said second call connection.

16. (Original) The system of claim 15, wherein said termination second node is connected to a called subscriber for the existing call and the incoming call and an origination one of said plurality of second nodes is connected to a calling subscriber for the existing call, said first call connection being connected between said termination second node and said origination second node.

17. (Original) The system of claim 16, wherein said termination second node is adapted to switch from said first call connection to said second call connection to receive the resource.

18. (Original) The system of claim 17, wherein said origination second node is adapted to switch from said first call connection to a third call connection connected between said origination second node and said first node over the broadband network to maintain the existing call.

19. (Original) A connection control node including broadband switching fabric for receiving a resource associated with an incoming call via a broadband network, said connection control node being operatively connectable to a call control node including switching intelligence and narrowband switching fabric via an intermediate node for interworking between said call control node and said connection control node, said connection control node comprising:

a first connection thereto associated with the incoming call over the broadband network; a temporary connection thereto operable to receive the resource from said call control node via the intermediate node and the broadband network: and

means for switching from said first connection to said temporary connection to break said first connection to receive the resource and for switching from said temporary connection to said first connection to break said temporary connection.

20. (Original) The connection control node of claim 19, wherein the resource comprises a frequency shift keying message.

21. (Previously Presented) The connection control node of claim 19, further comprising:

means for maintaining said call connection during said temporary connection.

22. (Previously Presented) The connection control node of claim 19, wherein said first connection is a first call connection over the broadband network associated with an existing call and further comprising:

a second call connection over the broadband network associated with the incoming call, said existing call being sent over said temporary connection during the sending of the resource over said temporary connection.

23. (Currently Amended) An intermediate node operatively connectable to a call control node including switching intelligence and narrowband switching fabric and a plurality of connection control nodes each including broadband switching fabric a termination one of said plurality of connection control nodes for receiving a resource associated with an incoming call over a broadband network, said intermediate node comprising:

means for receiving the resource from said call control node;

means for configuring first and second connections to the termination connection control node based on instructions provided by the switching intelligence of said first call control node;

means for providing the resource to the termination connection control node over one of said first and second connections via the broadband network;

wherein the first connection is a call connection over the broadband network associated with the call and the second connection is a temporary connection over the broadband network; and

means for breaking the call connection after the temporary connection is established to provide the resource over the temporary connection.

24. (Previously Presented) The intermediate node of claim 23, wherein the resource comprises a frequency shift keying message.

25. (Canceled)

26. (Previously Presented) The intermediate node of claim 23, further comprising: means for re-establishing the call connection after the temporary connection is broken.

27. (Previously Presented) A call control node including switching intelligence and narrowband switching fabric for providing a resource associated with an incoming call over a broadband network to a connection control node having broadband switching fabric via an intermediate node for interworking between said call control node and said connection control node, said call control node comprising:

a call conference device operable to connect together a first call connection to the connection control node associated with an existing call over the broadband network.

a second call connection to the connection control node associated with the incoming call over the broadband network and

a temporary connection for providing the resource to the connection control node over the broadband network.

28. (Previously Presented) The call control node of claim 27, wherein said call control node is comprised of a legacy switch including said narrowband switching fabric.

29. (Previously Presented) The call control node of claim 28, wherein the resource comprises a frequency shift keying message.

30. (Previously Presented) The call control node of claim 29, further comprising:

a frequency shift keying code sender device for generating the frequency shift keying message.

31. (Previously Presented) The call control node of claim 30, further comprising:

a group switch for connecting between said frequency shift keying code sender device and said connection control node.

32. (Previously Presented) The call control node of claim 31, further comprising:

exchange termination equipment for transmitting the frequency shift keying message to said connection control node.

33. (Previously Presented) A method for providing a resource associated with an incoming call over a broadband network, comprising the steps of:

providing the resource at a first node including switching intelligence and narrowband switching fabric;

establishing first and second connections associated with the incoming call towards a termination one of a plurality of second nodes over the broadband network, said first and second connections being configured by a third node based on instructions provided by said first node; and

receiving the resource at said termination second node over one of said first and second connections via the broadband network, wherein said first connection is a call connection over the broadband network associated with the incoming call and said second connection is a temporary connection over the broadband network associated with the incoming call, further comprising the steps of;

receiving the resource at said termination second node over said temporary connection; and

breaking said call connection after said temporary connection is established to provide the resource.

34. (Previously Presented) The method of claim 33, further comprising the step of:

converting the resource from a circuit-switching format used by said first node to a packet-switching format used by the broadband network at an additional one of said plurality of second nodes.

35-37. (Canceled)

38. (Previously Presented) The method of claim 33, wherein said step of breaking further comprises the step of:

switching, at said termination second node, from said call connection to said temporary connection to break said call connection.

39. (Previously Presented) The method of claim 33, wherein said step of breaking further comprises the step of:

maintaining, at said termination second node, said call connection during said temporary connection.

40. (Previously Presented) The method of claim 39, wherein said step of breaking further comprises the steps of:

connecting said call connection and said temporary connection to an access node connected to said termination second node, said access node being further connected to a called subscriber associated with the call; and

switching, at said access node, from said call connection to said temporary connection to break said call connection.

41. (Previously Presented) The method of claim 39, further comprising the step of:

re-establishing said call connection after said temporary connection is broken.

42. (Previously Presented) The method of claim 33, wherein said first connection is a first call connection over the broadband network associated with an existing call and said second connection is a second call connection over the broadband network associated with the incoming call and the existing call, and wherein said step of receiving further comprises the step of:

receiving the resource at said termination second node over said second call connection.

43. (Previously Presented) The method of claim 42, wherein said step of establishing further comprises the step of:

establishing said first call connection between said termination second node and an origination one of said plurality of second nodes.

44. (Previously Presented) The method of claim 43, wherein said step of receiving further comprises the step of:

switching, at said termination second node, from said first call connection to said second call connection to receive the resource.

45. (Previously Presented) The system of claim 44, further comprising the step of:

switching, at said origination second node, from said first call connection to a third call connection connected between said origination second node and said first node over the broadband network to maintain the existing call.